INDEX

[R] indicates Review article

A

Aberystwyth Grits, Tectonics of the, N. J. Price, 542.
Achistrum (*Cancellrum*) *bichordata* sp. nov., 323.
Achistrum (*Cancellrum*) *pilgrimi* sp. nov., 325.
Achistrum (*Cancellrum trichordata* sp. nov., 325.
Acid Breccias in the Kilchrist Vent, Skye, Note on Some, P. S. Ray, 420.
Acid Glasses, Composition of Some, I. Carmichael, 253.
Adams, C. G., and H. J. C. Kirk, The Madai-Baturong Limestone, Chert-Spilite Formation, N. Borneo, 289.
Aganides, *Clymenia*, and *Cyrthoceratites*, Type-species of, J. S. Turner, 183.
Ager, D. V., Pedunculate Brachiopods in Soft Sediments, 184.
Albite Porphyroblasts, Origin of, K. A. Jones, 92 ; A. F. Trendall, 94.
Amplexograptus Lapworth, Elles and Wood, O. M. B. Bulman, 459.
Amplexograptus fallax sp. nov., 463.
Ampthill Clay, Holothurian Spicules from, B. N. Fletcher, 322.
Angus, N. S., Ocellar Hybrids from Tyrone, Ireland, 9.
Anthraconauta tenuis, New Record of, J. Myers, 94.
Arctic, Geology of the, [R] 189.
Authigenic Minerals in Carboniferous Sediments, Vestspitsbergen, P. F. Hutchins, 63.

B

Bailey, E. B., ? Early Tertiary Fold Movements in Mull, 478.
Bascom, W., Hole in the Bottom of the Sea, [R] 190.
Biotite- and Sphene-rich Rocks in the Moines, Ardnamurchan, B. C. M. Butler, 173.
Black, M., Fossil Coccospheres from a Tertiary Outcrop on the Continental Slope, 123.
Blyth, F. G. H., and D. J. Shearman, A Conglomeratic Grit at Knowle Wood, S. Devon, 30.
Borneo, North, Madai-Baturong Limestone, C. G. Adams and H. J. C. Kirk, 289.
Börner, R., Minerals, Rocks, and Gemstones, [R] 288.
Bose, M. K., Pre-Cambrian Perthosites in Nyasaland, 92.
Bowes, D. R., Kentallenite-Lamprophyre-Granite Age Relations at Kentallen, Argyll, 119.
Bowes, D. R., and A. E. Wright, Washout Structures in the Dalradian, 53.
Bristol Avon, Buried Channel of, A. B. Hawkins, 369.
Bristow, C. M., Volcanics of the Upper Oramutia Valley, Kenya, 153.
British Guiana, Gneisses of the Bartica Assemblage, R. T. Cannon, 164.
Bulman, O. M. B., On the Genus *Amplexograptus* Lapworth, Elles and Wood, 459.
Buried Channel of the Bristol Avon, A. B. Hawkins, 369.
Butler, B. C. M., Biotite- and Sphene-rich Rocks in the Moines, Ardnamurchan, 173.

C

Cannon, R. T., Gneisses of the Bartica Assemblage, British Guiana, 164.
Carmichael, I., Composition of Some Acid Glasses, 253.
Carrock Fell Area, Hydrothermal Alteration in, A. Ewart, 1.
Casey, R., Validation of the Name *Nothodiscus* for a Genus of Cretaceous Ammonites, 479.
Chalk Rock, Sponges and the, R. E. H. Reid, 273.
Cheeney, R. F., Early Tertiary Fold Movements in Mull, 227.
Chubb, L. J., Pattern of Islands, 279.
Clark, G. B., International Symposium on Mining Research, [R] 288.
Clay Mineralogy of the Wealden, R. W. Tank, 128.
Clymenia, Type species of, J. S. Turner, 183.

Coal Measures and Skipsey's Marine Band, Fife, E. H. Francis and C. J. C. Ewing, 145.
Coccospheres from Tertiary Outcrop on the Continental Slope, M. Black, 123.
Co-Existing Pyroxenes, Tie-Lines of, A. L. G. Collée, 283.
Coe, K. (Ed.), Some Aspects of the Variscan Fold Belt, [R] 381.
Collée, A. L. G., Tie-Lines of Co-Existing Pyroxenes, 283.
Compton, R. R., Manual of Field Geology, [R] 380.
Conglomeratic Grit in S. Devon, F. G. H. Blyth and D. J. Shearman, 30.
Conjugate Fold Systems, Geometry of, J. G. Ramsay, 516.
Continental Slope, Fossil Coccospheres from, M. Black, 123.
Cook, A. C., and G. H. Taylor, Sclerotinite in Coal, 41.
Cork Red Marble, Stratigraphy and Origin of the, W. E. Nevill, 481.
Cribroperidinium gen. nov., 443.
Cribroperidinium sepimentum sp. nov., 443.
Crystallometry, [R] 94.
Cyrthoceratites, Type species of, J. S. Turner, 183.

D

Dalradian, Washout Structures in the, D. R. Bowes and A. E. Wright, 53.
Dearman, W. R., The Structure of Mid-Devon and N. Cornwall, 476.
Dearnley, R., Diopside-Orthoclase-Hornblende Rocks, South Harris, 27.
Devon and Cornwall, Structures of, S. Simpson, 284; W. R. Dearman, 176.
Devonian Rocks, Plymouth, Tectonic Structures in, W. K. Fyson, 208.
Dewey, J. F., Upper Arenigian Turbidites in Co. Mayo, Eire, 238.
Diopside-Orthoclase-Hornblende Rocks, South Harris, R. Dearnley, 27.
Drift-filled Valley at Thistleton on the Rutland-Lincolnshire Border, R. J. Rice, 468.

E

Eames, F. E., *et al.*, Fundamentals of Mid-Tertiary Stratigraphical Correlation, [R] 380.
Earth, Study of the, [R] 576.
Earth To-day, The, [R] 187.
Eopseudoceratium subgen. nov., 446.
Evolution of *Gryphaea*, G. M. Philip, 327; A. Hallam, 571.
Ewart, A., Hydrothermal Alteration in the Carrock Fell Area, 1.
Ewing, C. J. C., and E. H. Francis, Skipsey's Marine Band and Red Coal Measures, Fife, 145.

F

Festoon Bedding, J. Sutton and J. V. Watson, 286.
Field Geology, Manual of, [R] 380.
Fletcher, B. N., Holothurian Spicules from the Ampthill Clay, Hull (Yorkshire), 322.
Fossils, Tectonic Deformation of, H. W. Wellman, 348.
Fracture and Slaty Cleavage, Origin of, E. Williams, 570; W. K. Fyson, 570.
Francis, E. H., and C. J. C. Ewing, Skipsey's Marine Band and Red Coal Measures, Fife, 145.
French Jura, Structural Study of, M. Lindström, 193.
Frost, M. J., Metamorphic Grade and Fe-Mg Distribution, 427.
Fuller, M. D., Magnetic Fabric in Till, 233.
Fyson, W. K., Origin of Fracture and Slaty Cleavage, 570; Tectonic Structures in Devonian Rocks, Plymouth, 208.

G

Gangopadhyay, P. K., and M. R. W. Johnson, Quartz Orientation in Shear Folds, 69.
Gardodinium albertii sp. nov., 445.
Geomorphological Analysis, Factors in, W. Q. Kennedy, 304.
Geophysics, Methods and Techniques in, [R] 187.
Geophysics U.S.S.R., Applied, [R] 576.
Geophysik, Grundlagen der Angewandten, [R] 190.
Glacial Deposits and Hippopotamus-bearing Beds at Barrington, G. Norris, 97.
Gneisses of the Bartica Assemblage, British Guiana, R. T. Cannon, 164.
Gonyaulax cretacea sp. nov., 441.
Gonyaulax heslertonense sp. nov., 440.

Greywacke Sedimentation in the Torridonian of Colonsay and Oronsay, A. D. Stewart, 399.
Gryphaea, Evolution of, A. Hallam, 571 ; G. M. Philip, 327.

H

Hallam, A., The Evolution of *Gryphaea*, 571.
Hawkes, D. D., The Structure of the Scotia Arc, 85.
Hawkins, A. B. Buried Channel of the Bristol Avon, 369.
Heliodinium patriciae sp. nov., 451.
Hemitrypa hibernica M'Coy, T. G. Miller, 313.
Hippopotamus-bearing Beds and Glacial Deposits at Barrington, G. Norris, 97.
Hole in the Bottom of the Sea, [R] 190.
Holectypus, Morphology of, G. M. Philip, 345.
Holland, C. H., *et al.*, Ludlovian Classification : A Reply, 393.
Holothurian Spicules from the Ampthill Clay, B. N. Fletcher, 322.
Houtz, R. E., and H. W. Wellman, Turbidity Current at Kadavu Passage, Fiji, 57.
Hudson, J. D., Pseudo-pleochroic Calcite in Recrystallized Shell-limestones, 492.
Hutchins, P. F., Authigenic Minerals in Carboniferous Sediments, Vestspitsbergen, 63.
Hydrothermal Alteration in the Carrock Fell Area, A. Ewart, 1.
Hystrichosphaeridium macrotubulum sp. nov., 452.
Hystrichosphaeridium vasiformum sp. nov., 452.

J

Johnson, M. R. W., and P. K. Gangopadhyay, Quartz Orientation in Shear Folds, 69.
Jones, K. A., Origin of Albite Porphyroblasts, 92.

K

Kennedy, W. Q., Theoretical Factors in Geomorphological Analysis, 304.
Kentallenite - Lamprophyre - Granite Age Relations at Kentallen, Argyll, D. R. Bowes, 119.
Kenya, Volcanics of the Oramutia Valley, C. M. Bristow, 153.
Keuper Marl, Sedimentary Structures in the, G. de V. Klein, 137.
Kirk, H. J. C., and C. G. Adams, Madai-Baturong Limestone, Chert-Spilite Formation, N. Borneo, 289.
Klein, G. de V., Sedimentary Structures in the Keuper Marl, 137.

L

Lawson, J. D., *et al.*, Ludlovian Classification : A Reply, 393.
Leiosphaeridia and *Tasmanites*, Biological Affinities of, D. Wall, 353.
Lewisian Paragneisses, Diopside-Orthoclase-Hornblende Rocks from, R. Dearnley, 27.
Lindström, M., Structural Study of the French Jura, 193.
Ludlovian Classification : A Reply, C. H. Holland, J. D. Lawson, and V. G. Walmsley, 393.
Ludlovian Stratigraphy of the Type Area, Revised, C. B. Phipps, 385.

M

Madai-Baturong Limestone, N. Borneo, C. G. Adams and H. J. C. Kirk, 289.
Magnetic Fabric in Till, M. D. Fuller, 233.
Malvern Structures, H. G. Reading and A. B. Poole, 377 ; T. Whitworth, 375.
Marls and Limestones, Composition of, W. Sugden and W. S. McKerrow, 363.
McCall, G. J. H., Volcanic Rocks of the Oramutia Section, Central Kenya, 475.
McKerrow, W. S., and W. Sugden, Composition of Marls and Limestones, Great Oolite Series, Oxfordshire, 363.
Metamorphic Grade and Fe-Mg Distribution, M. J. Frost, 427.
Microplankton from the Speeton Clay of Yorkshire, J. W. Neale and W. A. S. Sarjeant, 439.
Mid-Tertiary Stratigraphical Correlation, Fundamentals of, [R] 380.
Middlemiss, F. A., Vermiform Burrows in the Lower Greensand, 33.
Miller, T. G., On *Hemitrypa hibernica* M'Coy, 313.
Minerals, On the External Characters of, [R] 480.
Minerals, Rocks, and Gemstones, [R] 288.

Mining Research, International Symposium on, [R] 288.
Mohr, P. A., Suspected Spilitic Rock from the Lower Cambrian, N. Wales, 265.
Moine Series, Ardnamurchan, Biotite- and Sphene-rich Rocks in, B. C. M. Butler, 173.
Moine-Lewisian Relations in Central Ross-shire, J. Sutton and J. Watson, 527.
Morel, S. W., Pre-Cambrian Perthosites in Nyasaland, 575.
Muderongia crucis sp. nov., 449.
Mull, Early Tertiary Fold Movements in, R. F. Cheeney, 227; E. B Bailey, 478.
Myers, J., New Record of *Anthraconauta tenuis*, 94.

N

Nairn, A. E. M., Descriptive Palaeoclimatology, [R] 188.
Neale, J. W., and W. A. S. Sarjeant, Microplankton from the Speeton Clay of Yorkshire, 439.
Nevill, W. E., Stratigraphy and Origin of the Cork Red Marble, 481.
Norris, G., Glacial Deposits and Hippopotamus-bearing Beds at Barrington, 97.
Nothodiscus, Validation of the Name, R. Casey, 479.
Nyasaland, Pre-Cambrian Perthosites, M. K. Bose, 92; S. W. Morel, 575.

O

Ocellar Hybrids from Tyrone, Ireland, N. S. Angus, 9.

P

Palaeclimatology, Descriptive, [R] 188.
Paraguay, Geologie von, [R] 575.
Pattern of Islands, L. J. Chubb, 279; H. T. Stearns 282.
Pedunculate Brachiopods in Soft Sediments, D. V. Ager, 184.
Perthosites in Nyasaland, Pre-Cambrian, M. K. Bose, 92; S. W. Morel, 575.
Petrogenetic Model, Extension of Bowne's Petrogenetic Grid, P. J. Wyllie, 558.
Philip, G. M., The Evolution of *Gryphaea*, 327; Note on the Morphology of *Holectypus*, 345.
Phipps C. B., Revised Ludlovian Stratigraphy of the Type Area, 385.
Poole, A. B., and H. G. Reading, Malvern Structures, 377.
Pre-Cambrian Perthosites in Nyasaland, M. K. Bose, 92; S. W. Morel, 575.
Price, N. J., The Tectonics of the Aberystwyth Grits, 542.
Pseudoceratium subgen. nov., 448.
Pseudoceratium (*Eopseudoceratium*) *gochti* sp. nov., 446.
Pseudo-pleochroic Calcite in Recrystallized Shell-limestones, J. D. Hudson, 492.
Publications Received, 95, 191, 383, 577.
Putzer, H., Geologie von Paraguay, [R] 576.

Q

Quartz Orientation in Shear Folds, P. K. Gangopadhyay and M. R. W. Johnson, 69.
Queensland, S. E., The Petrology of the Mt. Alford Ring-Complex, N. C. Stevens, 501.

R

Raasch, G. O., Geology of the Arctic, [R] 189.
Ramsay, J. G., The Geometry of Conjugate Fold Systems, 516.
Rast, N., Applied Geophysics U.S.S.R., [R] 576.
Ray, P. S., Note on Some Acid Breccias in the Kilchrist Vent, Skye, 420.
Reading, H. G., and A. B. Poole, Malvern Structures, 377.
Reich, H., Grundlagen der Angewandten Geophysik, [R] 190.
Reid, R. E. H., Sponges and the Chalk Rock, 273.
Rice, R. J., A Drift-filled Valley at Thistleton on the Rutland-Lincolnshire Border, 468.
Ring-Complex, Mt. Alford, N. C. Stevens, 501.
Runcorn, S. K., Methods and Techniques in Geophysics, [R] 187.

S

Sarjeant, W. A. S., and J. W Neale, Microplankton from the Speeton Clay of Yorkshire, 439.

Sclerotinite in Coal, G. H. Taylor and A. C. Cook, 41.
Scotia Arc, Structure of the, D. D. Hawkes, 85.
Sedimentary Structures in the Keuper Marl, G. de V. Klein, 137.
Shear Folds, Quartz Orientation in, P. K. Gangopadhyay and M. R. W. Johnson, 69.
Shearman, D. J., and F. G. H. Blyth, A Conglomeratic Grit at Knowle Wood, S. Devon, 30.
Shell-limestones, Pseudo-pleochroic Calcite in Recrystallized, J. D. Hudson, 492.
Simpson, S., Structures of Devon and Cornwall, 284.
Skipsey's Marine Band and Red Coal Measures, Fife, E. H. Francis and C. J. C. Ewing, 145.
Slaty Cleavage, Origin of Fracture and, E. Williams, 570; W. K. Fyson, 570.
Speeton Clay of Yorkshire, Microplankton from the, J. W. Neale and W. A. S. Sarjeant, 439.
Spilitic Rock, Suspected, from the Lower Cambrian, N. Wales, P. A. Mohr, 265.
Sponges and the Chalk Rock, R. E. H. Reid, 273.
Stearns, H. T., Pattern of Islands, 282.
Stevens, N. C., The Petrology of the Mt. Alford Ring-Complex, S.E. Queensland, 501.
Stewart, A. D., Greywacke Sedimentation in the Torridonian of Colonsay and Oronsay, 399.
Structural Study of the French Jura, M. Lindström, 193.
Structure of Mid-Devon and N. Cornwall, W. R. Dearman, 476.
Sugden, W., and W. S. McKerrow, Composition of Marls and Limestones, Great Oolite Series, Oxfordshire, 363.
Sutton, J., Torridonian Microfossils, 379.
Sutton, J., and J. V. Watson, Festoon Bedding, 286; An Interpretation of Moine-Lewisian Relations in Central Ross-shire, 527.
Systematophora complicata sp. nov., 455.

T

Tank, R. W., Clay Mineralogy of Selected Clays from the English Wealden, 128.
Tasmanites and *Leiosphaeridia*, Biological Affinities of, D. Wall, 353.
Taylor, G. H., and A. C. Cook, Sclerotinite in Coal, 41.
Tectonic Deformation of Fossils, H. W. Wellman, 348.
Tectonic Structures in Devonian Rocks, Plymouth, W. K. Fyson, 208.
Tectonics of the Aberystwyth Grits, N. J. Price, 542.
Terpstra, P., and L. W. Codd, Crystallometry, [R] 94.
Tertiary Fold Movements in Mull, R. F. Cheeney, 227.
Tertiary Fold Movements in Mull, Early (?), E. B. Bailey, 478.
Thistleton, Drift-filled Valley at, R. J. Rice, 468.
Torridonian of Colonsay and Oronsay, Greywacke Sedimentation in, A. D. Stewart, 399.
Torridonian Microfossils, J. Sutton, 379.
Trendall, A. F., Origin of Albite Porphyroblasts, 94.
Turbidites, Upper Arenigian, in Co. Mayo, Eire, J. F. Dewey, 238.
Turbidity Current at Kadavu Passage, Fiji, R. E. Houtz and H. W. Wellman, 57.
Turner, J. S., Type-species of *Aganides*, *Clymenia*, *and Cyrthoceratites*, 183.
Tyrone Igneous Series, Ocellar Hybrids from, N. S. Angus, 9.

V

Variscan Fold Belt, Some Aspects of, [R] 381.
Vermiform Burrows in the Lower Greensand, F. A. Middlemiss, 33.
Vestspitsbergen, Authigenic Minerals in Carboniferous Sediments, P. F. Hutchins, 63.
Volcanic Rocks of the Oramutia Section, Central Kenya, G. J. H. McCall, 475.
Volcanics of the Upper Oramutia Valley, Kenya, C. M. Bristow, 153.

W

Wall, D., Biological Affinities of *Tasmanites* and *Leiospharidia*, 353.
Walmsley, V. G., *et al.*, Ludlovian Classification : A Reply, 393.

Washout Structures in the Dalradian, D. R. Bowes and A. E. Wright, 53.
Watson, J. V., and J. Sutton, Festoon Bedding, 286 ; An Interpretation of Moine-Lewisian Relations in Central Ross-shire, 527.
Wealden, Clay Mineralogy of the, R. W. Tank, 128.
Wellman, H. W., Tectonic Deformation of Fossils, 348.
Wellman, H. W., and R. E. Houtz, Turbidity Current at Kadavu Passage, Fiji, 57.
Werner, A. G. (trans. A. V. Carozzi), On the External Characters of Minerals, [R] 480.
White, J. F., Study of the Earth, [R] 576.
Whitworth, T., Malvern Structures, 375.
Williams, E., Origin of Fracture and Slaty Cleavage, 570.
Wright, A. E., and D. R. Bowes, Washout Structures in the Dalradian, 53.
Wyllie, P. J., The Petrogenetic Model, an Extension of Bowen's Petrogenetic Grid, 558.

THE

GEOLOGICAL MAGAZINE

VOL. XCIX OF WHOLE SERIES

JANUARY–DECEMBER, 1962

Stephen Austin & Sons Ltd
Oriental and Colonial Printers
Hertford · Herts.

GEOLOGICAL MAGAZINE

with which is incorporated

THE GEOLOGIST

FOUNDED IN 1864 BY THE LATE DR. HENRY WOODWARD, F.R.S.

Edited by

O. M. B. BULMAN, Sc.D. A.R.C.Sc., F.R.S.,

S. R. NOCKOLDS, Ph.D., F.R.S.,

and

W. B. HARLAND, M.A.

assisted by

PROFESSOR W. G. FEARNSIDES, M.A., F.R.S.
PROFESSOR LEONARD HAWKES, D.Sc., F.R.S.
PROFESSOR O. T. JONES, M.A., D.Sc., F.R.S.
PROFESSOR SIR WILLIAM PUGH, O.B.E., D.Sc., F.R.S.
PROFESSOR C. E. TILLEY, Ph.D., F.R.S.

Vol. XCIX of Whole Series

JANUARY—DECEMBER, 1962

STEPHEN AUSTIN & SONS, LTD.

CAXTON HILL, WARE ROAD, HERTFORD, HERTS

CONTENTS

ARTICLES

(Figures in bold type denote number of issue)

ADAMS, C. G., & H. J. C. KIRK.
The Madai-Baturong Limestone Member of he Chert-Spilite Formation, North Borneo, **4**, 289–303.

ANGUS, N. S.
Ocellar Hybrids from the Tyrone Igneous Series, Ireland, **1**, 9–26.

BLACK, M.
Fossil Coccospheres from a Tertiary Outcrop on the Continental Slope, **2**, 123–127.

BLYTH, F. G. H., & D. J. SHEARMAN.
A Conglomeratic Grit at Knowle Wood, near Woolley, South Devon, **1**, 30–32.

BOWES, D. R.
Kentallenite-Lamprophyre-Granite Age Relations at Kentallen, Argyll, **2**, 119–122.

BOWES, D. R., & A. E. WRIGHT.
Washout Structures in the Dalradian near Kentallen, Argyll, **1**, 53-56,

BRISTOW, C. M.
The Geology of the Katmaian Volcanics of the Upper Oramutia Valley, Kenya, **2**, 153–163.

BULMAN, O. M. B.
On the Genus *Amplexograptus* Lapworth, Elles and Wood, **5**, 459–467.

BUTLER, B. C. M.
Biotite- and Sphene-rich Rocks in the Moine Series of Ardnamurchan, Argyllshire, **2**, 173–182.

CANNON, R. T.
The Gneisses of the Bartica Assemblage, British Guiana, **2**, 164–172.

CARMICHAEL, I.
A Note on the Composition of some Natural Acid Glasses, **3**, 253–264.

CHEENEY, R. F.
Early Tertiary Fold Movements in Mull, **3**, 227–232.

DEARNLEY, R.
Diopside-Orthoclase-Hornblende Rocks from the Lewisian Paragneisses of South Harris, Outer Hebrides, **1**, 27-29.

DEWEY, J. F.
The Provenance and Emplacement of Upper Arenigian Turbidites in Co. Mayo, Eire, **3**, 238–252.

EWART, A.
Hydrothermal Alteration in the Carrock Fell Area, **1**, 1–8.

FLETCHER, B. N.
Some Holothurian Spicules from the Ampthill Clay of Melton, near Hull (Yorkshire), **4**, 322–326.

FRANCIS, E. H., & C. J. C. EWING.
Skipsey's Marine Band and Red Coal Measures in Fife, **2**, 145–152.

FROST, M. J.
Metamorphic Grade and Iron-Magnesium Distribution between Co-Existing Garnet-Biotite and Garnet-Hornblende, **5**, 427–438.

FULLER, M. D.
A Magnetic Fabric in Till, **3**, 233–237.

FYSON, W. K.
Tectonic Structures in the Devonian Rocks near Plymouth, Devon, **3**, 208–226.

GANGOPADHYAY, P. K., & M. R. W. JOHNSON.
A Study of Quartz Orientation and its Relation to Movement in Shear Folds, **1**, 69–84.

HAWKES, D. D.
The Structure of the Scotia Arc, **1**, 85–91.

HAWKINS, A. B.
The Buried Channel of the Bristol Avon, **4**, 369–374.

HOLLAND, C. H., J. D. LAWSON, & V. G. WALMSLEY.
Ludlovian Classification—A Reply, **5**, 393–398.

HOUTZ, R. R., & H. W. WELLMAN.
Turbidity Current at Kadavu Passage, Fiji, **1**, 57–62.

HUDSON, J. D.
Pseudo-pleochroic Calcite in Recrystallized Shell-limestones, **6**, 492–500.

HUTCHINS, P. F.
Authigenic Minerals in Carboniferous Sediments from Central Vestspitsbergen, **1**, 63–68.

KENNEDY, W. Q.
Some Theoretical Factors in Geomorphological Analysis, **4**, 304–312.

KLEIN, G. deV.
Sedimentary Structures in the Keuper Marl (Upper Triassic), **2**, 137–144.

LINDSTRÖM, M.
A Structural Study of the Southern End of the French Jura, **3**, 193–207.

MIDDLEMISS, F. A.
Vermiform Burrows and Rate of Sedimentation in the Lower Greensand, **1**, 33–40.

MILLER, T. G.
On *Hemitrypa hibernica* M'Coy, **4**, 313–321.

MOHR, P. A.
A Suspected Spilitic Rock from the Lower Cambrian Manganese Shale Group of the Harlech Dome, North Wales, **3**, 265–272.

NEALE, J. W., & W. A. S. SARJEANT.
Microplankton from the Speeton Clay of Yorkshire, **5**, 439–458.

NEVILL, W. E.
Stratigraphy and Origin of the Cork Red Marble, **6**, 481–491.

NORRIS, G.
Some Glacial Deposits and their Relation to the Hippopotamus-bearing Beds at Barrington, Cambridgeshire, **2**, 97–118.

PHILIP, G. M.
The Evolution of *Gryphaea*, **4**, 327–344.
A Note on the Morphology of *Holectypus*, **4**, 345–347.

PHIPPS, C. B.
The Revised Ludlovian Stratigraphy of the Type Area—A Discussion, **5**, 385–392.

PRICE, N. J.
The Tectonics of the Aberystwyth Grits, **6**, 542–557.

RAMSAY, J. G.
The Geometry of Conjugate Fold Systems, **6**, 516–526.

RAY, P. S.
A Note on Some Acid Breccias in the Kilchrist Vent, Skye, **5**, 420–426.

REID, R. E. H.
Sponges and the Chalk Rock, **3**, 273–278.

RICE, R. J.
A Drift-filled Valley at Thistleton on the Rutland-Lincolnshire Border, **5**, 468–474.
STEVENS, N. C.
The Petrology of Mt. Alford Ring-Complex, S.E. Queensland, **6**, 501–515.
STEWART, A. D.
Greywacke Sedimentation in the Torridonian of Colonsay and Oronsay, **5**, 399–419.
SUGDEN, W., & W. S. MCKERROW.
The Composition of Marls and Limestones in the Great Oolite Series of Oxfordshire, **4**, 363–368.
SUTTON, J., & J. WATSON.
An Interpretation of Moine-Lewisian Relations in Central Ross-shire, **6**, 527–541.
TANK, R. W.
Clay Mineralogy of Selected Clays from the English Wealden, **2**, 128–136.
TAYLOR, G. H., & A. C. COOK.
Sclerotinite in Coal—its Petrology and Classification, **1**, 41–52.
WALL, D.
Evidence from Recent Plankton Regarding the Biological Affinities of *Tasmanites* Newton 1875 and *Leiosphaeridia* Eisenack 1958, **4**, 353–362.
WELLMAN, H. W.
A Graphical Method for Analysing Fossil Distortion Caused by Tectonic Deformation, **4**, 348–352.
WYLLIE, P. J.
The Petrogenetic Model, an Extension of Bowen's Petrogenetic Grid, **6**, 558–569.

REVIEWS

Arctic, Geology of the, **2**, 189.
Crystallometry, **1**, 94.
Earth, Study of the, **6**, 576.
Earth Today, The, **2**, 187.
Field Geology, Manual of, **4**, 380.
Geophysics, Applied, **6**, 576.
Geophysics, Methods and Techniques in, **2**, 187.
Geophysik für Geologen, Grundlagen der Angewandten, **2**, 190.
Mid-Tertiary Stratigraphical Correlation, Fundamentals of, **4**, 380.
Minerals, On the External Characters of, **5**, 480.
Minerals, Rocks, and Gemstones, **3**, 288.
Mining Research, International Symposium on, **3**, 288.
Palaeoclimatology, Descriptive, **2**, 188.
Paraguay, Geologie von, **6**, 575.
Publications Received, **1**, 95 ; **2**, 191 ; **4**, 383 ; **6**, 577.
Sea, A Hole in the Bottom of the, **2**, 190.
Variscan Fold Belt, Some Aspects of the, **4**, 381.

CORRESPONDENCE

AGER, D. V. The Occurrence of Pedunculate Brachiopods in Soft Sediments, **2**, 184–186.
BAILEY, E. B. ? Early Tertiary Fold Movements in Mull, **5**, 478–479.
BOSE, M. K. Pre-Cambrian Perthosites in Nyasaland, **1**, 92.
CASEY, R. Validation of the name *Nothodiscus* for a Genus of Cretaceous Ammonites, **5**, 479–480.

CHUBB, L. J. Pattern of Islands, **3,** 279–281.
COLLÉE, A. L. G. Tie-lines of Co-existing Pyroxenes, **3,** 283–284.
DEARMAN, W. R. The Structure of Mid-Devon and North Cornwall, **5,** 476-478.
FYSON, W. K. Origin of Fracture and Slaty Cleavage, **6,** 570–571.
HALLAM, A. The Evolution of *Gryphaea*, **6,** 571–574.
JONES, K. A. Origin of Albite Porphyroblasts, **1,** 92–93.
MCCALL, G. J. H. Volcanic Rocks of the Oramutia Section, Central Kenya, **5,** 475–476.
MOREL, S. W. Pre-Cambrian Perthosites in Nyasaland, **6,** 575.
MYERS, J. New Record of *Anthraconauta tenuis*, **1,** 94.
READING, H. G., & A. B. POOLE. Malvern Tectonics, **4,** 377–379.
SIMPSON, S. Structures of Devon and Cornwall, **3,** 284–286.
STEARNS, H. T. Pattern of Islands, **3,** 282–283.
SUTTON, J. Torridonian Microfossils, **4,** 379.
SUTTON, J., & J. V. WATSON. Festoon Bedding, **3,** 286–287.
TRENDALL, A. F. Origin of Albite Porphyroblasts, **1,** 94.
TURNER, J. S. The Type-Species of *Aganides*, *Clymenia*, and *Cyrthoceratites*, **2,** 183–184.
WHITWORTH, T. Malvern Structures, **4,** 375–377.
WILLIAMS, E. Origin of Fracture and Slaty Cleavage, **6,** 570.

PLATES

I. Textures of Ocellar Hybrids, **1,** *facing* p. 26.
II–IV. Sclerotinite in Coal, **1,** *facing* p. 52.
V. Washout Structures in the Dalradian, **1,** *facing* p. 56.
VI. Carbonate Replacement of Quartz and Feldspar, **1,** *facing* p. 68.
VII. Quartz Orientation in Shear Folds, **1,** *facing* p. 84.
VIII. Tertiary Coccospheres, **2,** *facing* p. 126.
IX. Tertiary Coccospheres and Coccoliths, **2,** *facing* p. 127.
X. Basic Inclusions within Gneisses, Bartica Assemblage, British Guiana, **2,** *facing* p. 172.
XI. Biotite-sphene Rocks in the Moine Series, Ardnamurchan, **2,** *facing* p. 182.
XII. Thin Sections of Upper and Lower Breccia, **4,** *facing* p. 302.
XIII–XIV. Fossils from Madai-Baturong Limestone, **4,** *facing* p. 302.
XV. *Hemitrypa hibernica* M'Coy, **4,** *facing* p. 320
XVI. Tectonic Deformation of Fossils, **4,** *facing* p. 352.
XVII. Recent Phytoplankton and *Tasmanites*, **4,** *facing* p. 362.
XVIII. Acid Breccias from the Kilchrist Vent, Skye, **5,** *facing* p. 426.
XIX–XX. Microplankton from the Speeton Clay, **5,** *facing* p. 458.
XXI. Pseudo-pleochroic Calcite and Aragonite in Jurassic Lamellibranch Shells, **6,** *facing* p. 500.
XXII. Aberystwyth Grits, **6,** *facing* p. 557.